

# CP-168U Series

## 8-port RS-232 Universal PCI serial boards



### Features and Benefits

- Over 700 kbps data throughput for top performance
- 921.6 kbps maximum baudrate for fast data transmission
- 128-byte FIFO and on-chip H/W, S/W flow control
- Variety of connection cables and boxes available for RS-232/422/485
- Compatible with 3.3/5 V PCI and PCI-X
- Drivers provided for a broad selection of operating systems, including Windows, Linux, and UNIX
- Wide-temperature model available for -40 to 85°C environments

### Certifications



## Introduction

The CP-168U is a smart, 8-port universal PCI board designed for POS and ATM applications. It is a top choice of industrial automation engineers and system integrators, and supports many different operating systems, including Windows, Linux, and even UNIX. In addition, each of the board's eight RS-232 serial ports supports a fast 921.6 kbps baudrate. The CP-168U provides full modem control signals to ensure compatibility with a wide range of serial peripherals, and it works with both 3.3 V and 5 V PCI buses, allowing the board to be installed in virtually any available PC server.

## Specifications

### Serial Interface

Comm. Controller	MU860 (16C550C compatible)
Bus	32-bit Universal PCI
Connector	DB62 female
FIFO	128 bytes
Max. No. of Boards per PC	8
No. of Ports	8
Serial Standards	RS-232
Baudrate	50 bps to 921.6 kbps
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	None, RTS/CTS, XON/XOFF

### Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
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## Serial Software Features

Windows Drivers	DOS, Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x, Linux kernel 3.x
UNIX Drivers	QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

## Power Parameters

Input Current	180 mA @ 5 VDC
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## Physical Characteristics

Dimensions	82 x 120 mm (3.22 x 4.72 in)
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## LED Interface

LED Indicators	Built-in Tx, Rx LEDs for each port
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## Environmental Limits

Operating Temperature	CP-168U: 0 to 55°C (32 to 131°F) CP-168U-T: -40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

## Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV
International Approval	CP-168U: KC

## Declaration

Green Product	RoHS, CRoHS, WEEE
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## MTBF

Time	280,854 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

## Warranty

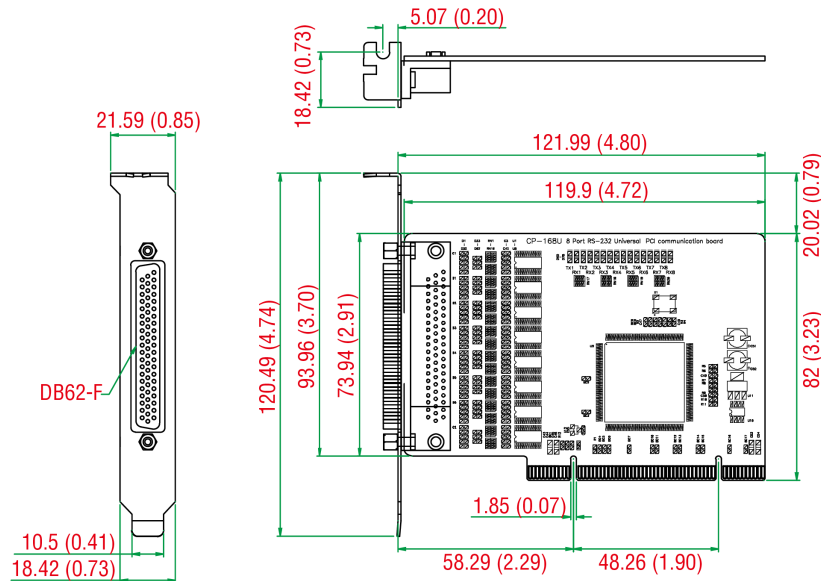
Warranty Period	5 years
Details	See <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a>

## Package Contents

Device	1 x CP-168U Series serial board
Documentation	1 x document and software CD 1 x quick installation guide 1 x substance disclosure table 1 x warranty card

## Dimensions

Unit: mm (inch)



## Ordering Information

Model Name	Serial Standards	No. of Serial Ports	Operating Temp.
CP-168U	RS-232	8	0 to 55°C
CP-168U-T	RS-232	8	-40 to 85°C

## Accessories (sold separately)

### Cables

CBL-M62M9x8-100	M62 to 8 x DB9 male cable, 1 m
CBL-M62M25x8-100	M62 to 8 x DB25 male cable, 1 m

### Connection Boxes

OPT 8A	M62 to 8 x DB25(F) connection box with 150 cm DB62(M)-to-DB62(F) cable
OPT 8B	M62 to 8 x DB25(M) connection box with 150 cm DB62(M)-to-DB62(F) cable
OPT 8S	M62 to 8 x DB25(F) connection box with surge protection with 150 cm DB62(M)-to-DB62(F) cable
OPT8-M9	M62 to 8 x DB9(M) connection box with 150 cm DB62(M)-to-DB62(F) cable
OPT8-RJ45	M62 to 8 x RJ45 (8-pin) connection box with 30 cm cable

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